



Application No. 10/719,235  
Amendment dated September 18, 2006  
Reply to Office Action of May 17, 2006

Docket No.: 0789-0155P  
Page 3 of 11

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An electropositive production well treating fluid,  
comprising:

[[a]] at least one cationic fluid loss additive with a content of 0.05-5% by  
weight;

[[b]] at least one cationic viscosifier with a content of 0.05-5% by weight;

an electrical stabilizing agent with a content of 0.1-15% by weight;

the contents above are ~~both~~ based on total weight of the production well  
treating fluid;

and water,

wherein said electrical stabilizing agent is at least one selected from the  
group consisting of an inorganic salt of iron, an inorganic salt of aluminum,  
hydroxylaluminum and an organic cationic etherifying agent.

2. (Currently Amended) The production well treating fluid according to claim 1, which  
further comprises a mud-building agent ~~for imparting a positive zeta potential to the production  
well treating fluid~~ with a content of 0.5-6% by weight.

3. (Currently Amended) The production well treating fluid according to claim 1 or 2,  
which further comprises ~~an electrical stabilizing agent with a content of 0.1-15% by weight at~~

JMS/REG/

least one additive selected from the group consisting of a colloid-stabilizing agent, a lubricant, an oil layer protective agent and a weighting agent.

4-5. (Canceled)

6. (Currently Amended) The production well treating fluid according to claim 1, which further comprises:

[[c]] a mud-building agent ~~for imparting a positive zeta potential to the production well treating fluid;~~

d) ~~an electrical stabilizing agent;~~

[[e]] a colloid-stabilizing agent;

[[f]] a lubricant;

[[g]] an oil layer protective agent; and

[[h]] a weighting agent.

7. (Currently Amended) The production well treating fluid according to claim 1, wherein said cationic fluid loss additive is at least one selected from the group consisting of a cationic polymer having a low molecular weight, a cationic starch, a cationic modified cellulose, a cationic lignin and a cationic modified lignite.

8. (Currently Amended) The production well treating fluid according to claim 1, wherein said cationic viscosifier is at least one selected from the group consisting of an

JMS/REG/

inorgano-electropositive ~~glue~~ gel, a black organo-electropositive ~~glue~~ gel, a cationic guanidine gel, a cationic polyacrylamide and a polyquaternary ammonium salt.

9. (Currently Amended) The production well treating fluid according to claim 2, wherein said mud building agent ~~for imparting a positive zeta potential to the production well treating fluid~~ is at least one selected from the group consisting of a clay mineral which has a zeta potential higher than -10 mv and a modified product of said clay mineral.

10. (Canceled)

11. (Previously Presented) The production well treating fluid according to claim 1 or 2, which further comprises at least one colloid-stabilizing agent with a content of 0.05-5% by weight.

12. (Previously Presented) The production well treating fluid according to claim 11, wherein said colloid-stabilizing agent is at least one selected from the group consisting of a hydroxyethyl cellulose, a biopolymer, a polymeric alcohol and a polysaccharide.

13. (Previously Presented) The production well treating fluid according to claim 1 or 2, which has a zeta potential higher than 0 mv.

14. (Previously Presented) The production well treating fluid according to claim 1, which has a zeta potential in the range of +10 mv to +60 mv.

15. (Previously Presented) The production well treating fluid according to claim 1, which has a zeta potential in the range of +21 mv to +29 mv.

16. (Currently Amended) A method of preparing a production well treating fluid according to claim 1, which comprises:

mixing at least one cationic fluid loss additive, the at least one cationic viscosifier, the water, the electrical stabilizing agent, and optionally with adding at least one selected from the group consisting of a mud-building agent for imparting a positive zeta potential to the production well treating fluid, an electrical stabilizing agent, a colloid-stabilizing agent, a lubricant, an oil layer protective agent, and a weighting agent and the water;

wherein the content of the cationic fluid loss additive is 0.05-5% by weight; ~~and the content of the cationic viscosifier is 0.05-5% by weight, and the content of the electrical stabilizing agent is 0.1-15% by weight;~~

said contents are all based on total weight of the production well treating fluid,  
and wherein said electrical stabilizing agent is at least one selected from the group consisting of an inorganic salt of iron, an inorganic salt of aluminum, hydroxyaluminum and an organic cationic etherifying agent.

17. (Previously Presented) A process of drilling and well completion, comprising:

applying the well treating fluid of claim 1 or 2 as a drilling fluid during a drilling or well completion operation.

18. (Currently Amended) The production well treating fluid according to ~~claim 10~~ claim 1, wherein said inorganic salt of iron is iron chloride or ferric sulfate, and said inorganic salt of aluminum is aluminum chloride or aluminum sulfate.